

The present invention provides a single carrier/DS-CDMA packet transmission method wherein a predetermined time slot is assigned to reservation demand packet transmission in regard to a spreading code, and the reservation demand packet and data packets are time-multiplexed for transmission. An uplink packet transmission method in a multi-carrier/DS-CDMA mobile communication system is also provided, wherein frames are set up in each communication channel of a subcarrier, time slots which are time-segments of the frames are set up further, and a mobile station spreads a packet to be transmitted by a spreading code and the information signal is transmitted to a base station in a predetermined time slot. A downlink channel configuration in a multi-carrier/DS-CDMA mobile communication system is further provided, wherein a plurality of communication channels assigned to each of a plurality of subcarriers are divided for every predetermined time frame, and multiplexed, and the plurality of the communication channels assigned to each subcarrier include a common-control channel used by a plurality of users in common, and communication channels peculiar to each user.

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